

TI- Base material for culturing cells - obtd. by immobilising growth factor for cells and cell-adhesive factor to PMMA film via amide bond

AB- J04108377 Base material is obtd. by immobilising a growth factor for cells and a cell-adhesive factor to a polymethyl methacrylate (PMMA) film through the amide bond.

- Pref. the growth factor for cells is insulin. The cell adhesive factor is fibronectin. The growth factor for cells and the cell-adhesive factor are immobilised to the PMMA film by (1) hydrolysing the surface of the PMMA film so that a carboxyl gp. is generated on the film, (2) allowing water soluble carbodiimide, e.g. 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide, to react on it and (3) allowing the growth factor for cells and the cell-adhesive factor to react on it at 0-50 deg. C for 1-24 hrs. in an aq. solvent of pH 1.0-13.0.

- USE/ADVANTAGE - The base material for culturing cells is used for the plantation of dermal cells of haemal endothelia. (0/0)

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